InterPore2021



Contribution ID: 299

Type: Oral Presentation

Numerical scheme for a coupled system in geomechanics

Tuesday, 1 June 2021 16:10 (15 minutes)

Building on the work of Andro Mikelic and Mary WHeeler, we propose a numerical scheme for an ellipticparabolic system involving deformation and pressure in porous media. Existence and uniqueness of the solution have been proved by Mikelic et al; we will add some convergence results for ou numerical scheme. This is joint work with Ludovic Goudenège and Danielle Hilhorst

Time Block Preference

Time Block C (18:00-21:00 CET)

References

Convergence of iterative coupling for coupled flow and geomechanics, Andro Mikelic and Mary F. Wheeler

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Presenter: Mr BEGUINET, Adrien (Paris-Saclay)

Session Classification: MS24

Track Classification: (MS24 - Invitation Only) Mathematical and computational challenges related to porous media - Special session in memory of Andro Mikelic